

## CARBON TECHNOLOGY

### Abstract of the Disclosure

Catalytically active carbons are used in cigarette filters for selective oxidation of selected gas phase components in cigarette smoke. The carbons are impregnated with transition metals and sulfur and/or nitrogen ligation. The catalytic activity of the carbon is significantly improved by introducing catalytically active sites by heat treatment in the range of 500-1000°C in the presence of transition metals and nitrogenous or sulfurous materials. Furthermore, introduction of such metalliferous sites into a active carbon can improve the adsorptive affinity of the active carbon for classes of compounds, including aliphatic dienes and aromatic hydrocarbons.